

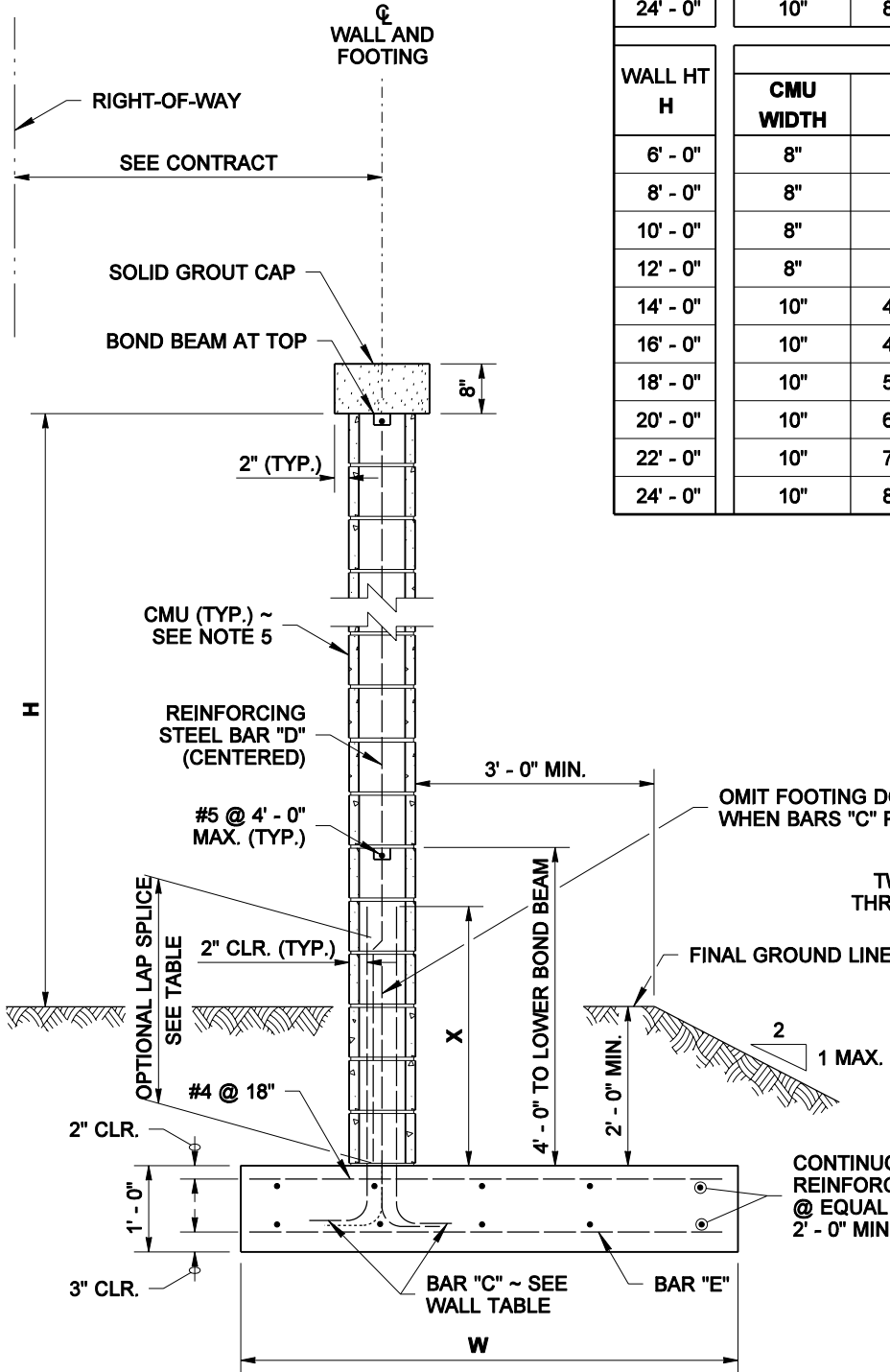
WIND EXPOSURE & VELOCITY		
NOISE BARRIER TYPE	WIND EXPOSURE	WIND VELOCITY (MPH)
18A	B1	80
18B	B1	90
18C	B2	80
18D	B2	90

WALL HT H	TYPE 18A							WALL HT H	TYPE 18B						
	CMU WIDTH	X	W	BAR "A"	BAR "C"	BAR "D"	BAR "E"		CMU WIDTH	X	W	BAR "A"	BAR "C"	BAR "D"	BAR "E"
6' - 0"	8"	—	2' - 0"	3 ~ #4	—	#6 @ 48"	#4 @ 18"	6' - 0"	8"	—	2' - 3"	3 ~ #4	—	#6 @ 48"	#4 @ 18"
8' - 0"	8"	—	2' - 3"	3 ~ #4	—	#6 @ 48"	#4 @ 18"	8' - 0"	8"	—	2' - 9"	4 ~ #4	—	#6 @ 48"	#4 @ 18"
10' - 0"	8"	—	2' - 6"	3 ~ #4	—	#6 @ 48"	#4 @ 18"	10' - 0"	8"	—	3' - 3"	4 ~ #4	—	#6 @ 48"	#4 @ 18"
12' - 0"	8"	—	3' - 0"	4 ~ #4	—	#6 @ 48"	#4 @ 18"	12' - 0"	10"	4' - 0"	3' - 9"	4 ~ #4	—	#6 @ 40"	#4 @ 18"
14' - 0"	8"	—	3' - 3"	4 ~ #4	—	#6 @ 36"	#4 @ 18"	14' - 0"	10"	4' - 8"	4' - 3"	5 ~ #4	#6 @ 40"	#6 @ 40"	#4 @ 18"
16' - 0"	10"	5' - 4"	3' - 9"	5 ~ #4	—	#6 @ 16"	#4 @ 18"	16' - 0"	10"	5' - 4"	5' - 3"	5 ~ #4	#6 @ 32"	#6 @ 32"	#4 @ 18"
18' - 0"	10"	6' - 0"	4' - 0"	5 ~ #4	#6 @ 48"	#6 @ 48"	#4 @ 18"	18' - 0"	10"	6' - 0"	6' - 0"	6 ~ #4	#6 @ 24"	#6 @ 24"	#4 @ 18"
20' - 0"	10"	6' - 8"	5' - 0"	5 ~ #4	#6 @ 32"	#6 @ 32"	#4 @ 18"	20' - 0"	10"	8' - 0"	7' - 0"	5 ~ #4	#7 @ 24"	#7 @ 24"	#4 @ 18"
22' - 0"	10"	7' - 4"	5' - 6"	5 ~ #4	#6 @ 24"	#6 @ 24"	#4 @ 18"	22' - 0"	10"	10' - 0"	7' - 9"	5 ~ #4	#7 @ 16"	#7 @ 16"	#4 @ 12"
24' - 0"	10"	8' - 0"	6' - 3"	5 ~ #4	#6 @ 16"	#6 @ 16"	#4 @ 18"	24' - 0"	10"	12' - 0"	8' - 6"	5 ~ #4	#8 @ 16"	#8 @ 16"	#4 @ 12"

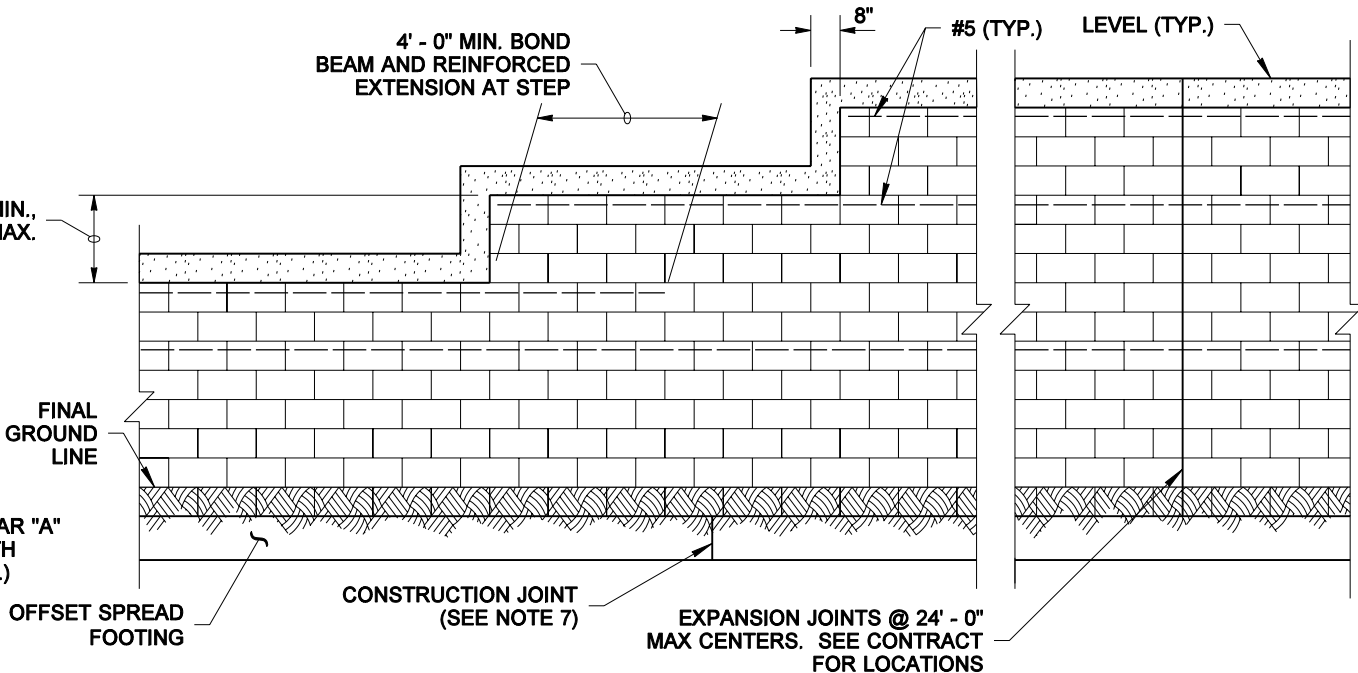
WALL HT H	TYPE 18C							WALL HT H	TYPE 18D						
	CMU WIDTH	X	W	BAR "A"	BAR "C"	BAR "D"	BAR "E"		CMU WIDTH	X	W	BAR "A"	BAR "C"	BAR "D"	BAR "E"
6' - 0"	8"	—	2' - 0"	3 ~ #4	—	#6 @ 48"	#4 @ 18"	6' - 0"	8"	—	2' - 6"	3 ~ #4	—	#6 @ 48"	#4 @ 18"
8' - 0"	8"	—	2' - 6"	3 ~ #4	—	#6 @ 48"	#4 @ 18"	8' - 0"	8"	—	3' - 3"	5 ~ #4	—	#6 @ 48"	#4 @ 18"
10' - 0"	8"	—	2' - 9"	3 ~ #4	—	#6 @ 48"	#4 @ 18"	10' - 0"	10"	4' - 0"	3' - 6"	5 ~ #4	—	#6 @ 24"	#4 @ 18"
12' - 0"	8"	—	3' - 3"	3 ~ #4	—	#6 @ 40"	#4 @ 18"	12' - 0"	10"	4' - 0"	4' - 3"	5 ~ #4	#6 @ 48"	#6 @ 32"	#4 @ 18"
14' - 0"	10"	4' - 0"	3' - 9"	5 ~ #4	—	#6 @ 16"	#4 @ 18"	14' - 0"	10"	4' - 8"	5' - 3"	5 ~ #4	#6 @ 32"	#6 @ 24"	#4 @ 18"
16' - 0"	10"	4' - 8"	4' - 3"	5 ~ #4	#6 @ 40"	#6 @ 40"	#4 @ 18"	16' - 0"	10"	5' - 4"	6' - 3"	5 ~ #4	#6 @ 24"	#7 @ 16"	#4 @ 18"
18' - 0"	10"	5' - 4"	5' - 0"	5 ~ #4	#6 @ 32"	#6 @ 32"	#4 @ 18"	18' - 0"	10"	7' - 4"	7' - 0"	5 ~ #4	#6 @ 16"	#7 @ 16"	#4 @ 18"
20' - 0"	10"	6' - 0"	5' - 9"	5 ~ #4	#6 @ 24"	#6 @ 24"	#4 @ 18"	20' - 0"	10"	9' - 8"	8' - 0"	5 ~ #4	#7 @ 16"	#8 @ 16"	#4 @ 12"
22' - 0"	10"	7' - 0"	6' - 6"	5 ~ #4	#6 @ 16"	#6 @ 16"	#4 @ 18"	22' - 0"	10"	12' - 0"	9' - 0"	5 ~ #4	#8 @ 16"	#8 @ 16"	#4 @ 12"
24' - 0"	10"	8' - 0"	7' - 6"	5 ~ #4	#7 @ 16"	#7 @ 16"	#4 @ 12"	24' - 0"	10"	15' - 0"	9' - 9"	6 ~ #4	#9 @ 16"	#8 @ 16"	#4 @ 12"

CMU = CONCRETE MASONRY UNIT

BAR SIZE	SPLICE LENGTH
#6	2' - 8"
#7	3' - 8"
#8	4' - 10"



TYPICAL SECTION



ELEVATION

NOTE: THIS PLAN IS NOT A LEGAL ENGINEERING DOCUMENT BUT AN ELECTRONIC DUPLICATE. THE ORIGINAL, SIGNED BY THE ENGINEER AND APPROVED FOR PUBLICATION, IS KEPT ON FILE AT THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION. A COPY MAY BE OBTAINED UPON REQUEST.

NOTES

1. Wall to be designated Noise Barrier Wall Type 18A, 18B, 18C or 18D. The Contract specifies actual wall designations.
2. For intermediate wall heights, use the next higher H.
3. All masonry shall be hollow unit and installed as running bond.
4. All masonry is to be specially inspected.
5. All Concrete Masonry Unit (CMU) cells that have vertical steel reinforcing bars or bond beam units shall be filled with grout.
6. Panels shall have at least 3 feet of level ground on each side.
7. Construction joints in the footing shall be spaced at 120 feet maximum.
8. See "Masonry Wall Finishes and Details" sheets for masonry block finishes, special shapes, sizes and layout.

MASONRY WALL ON  
OFFSET SPREAD FOOTING



EXPIRES AUGUST 23, 2006

NOISE BARRIER WALL  
TYPE 18

STANDARD PLAN D-2.64-00

SHEET 1 OF 2 SHEETS

APPROVED FOR PUBLICATION

Harold J. Peterfeso

11-10-05

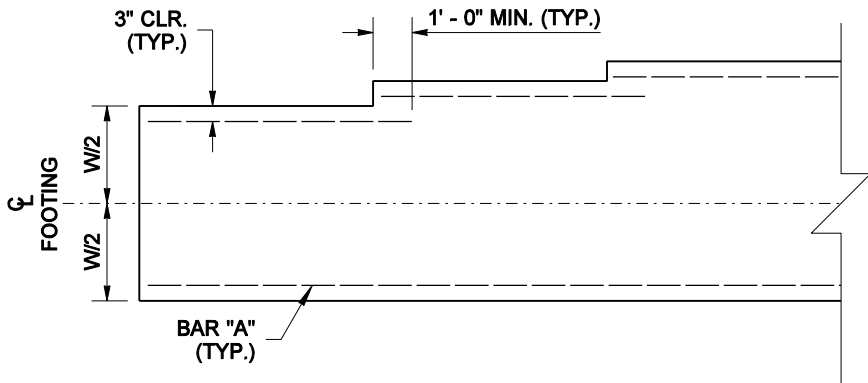
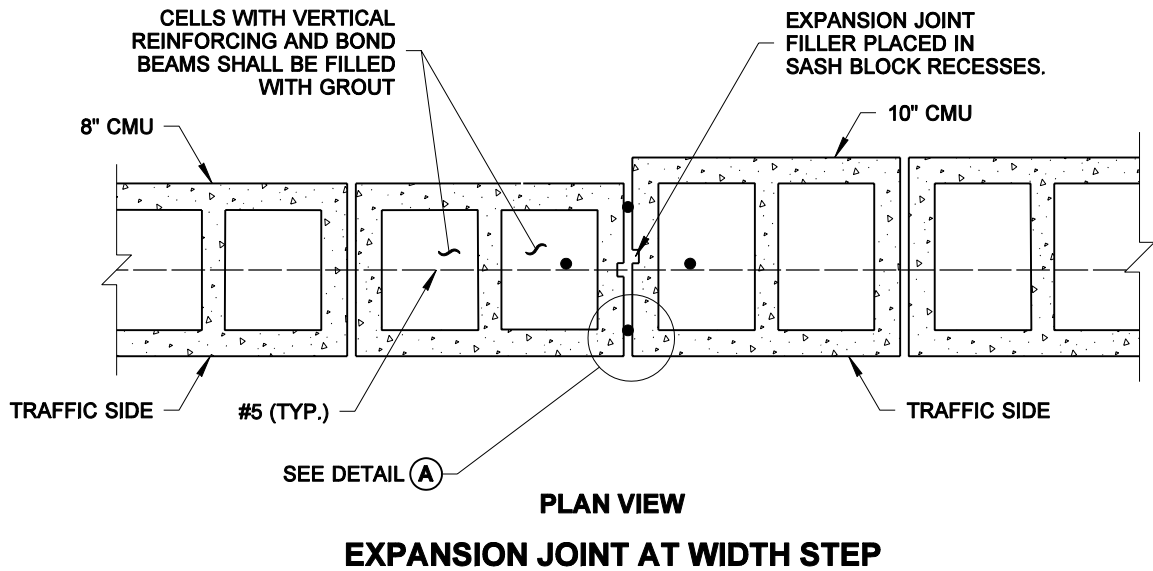
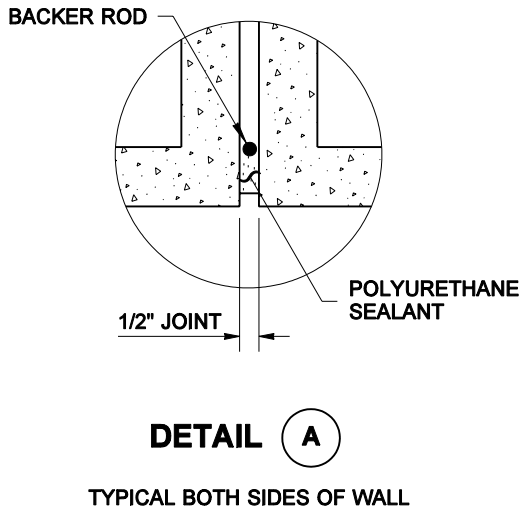
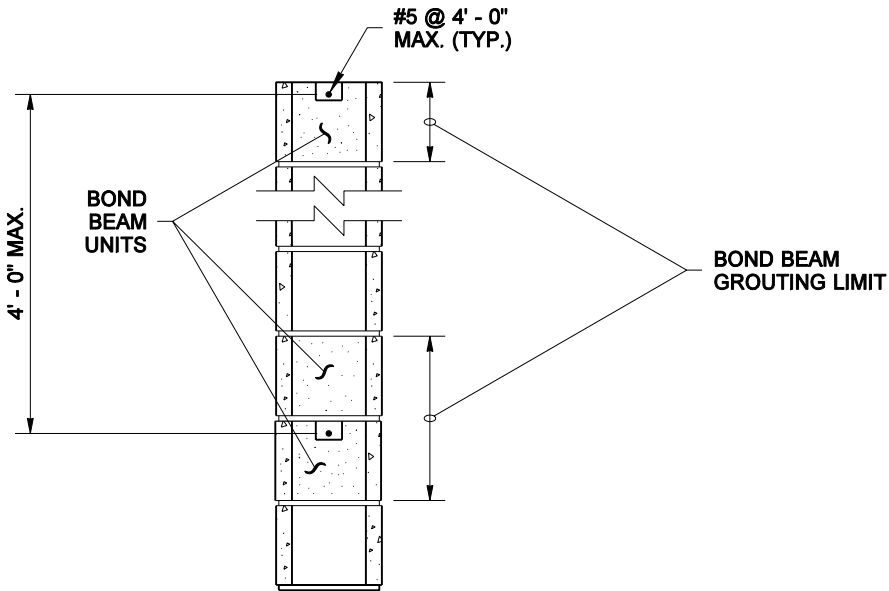
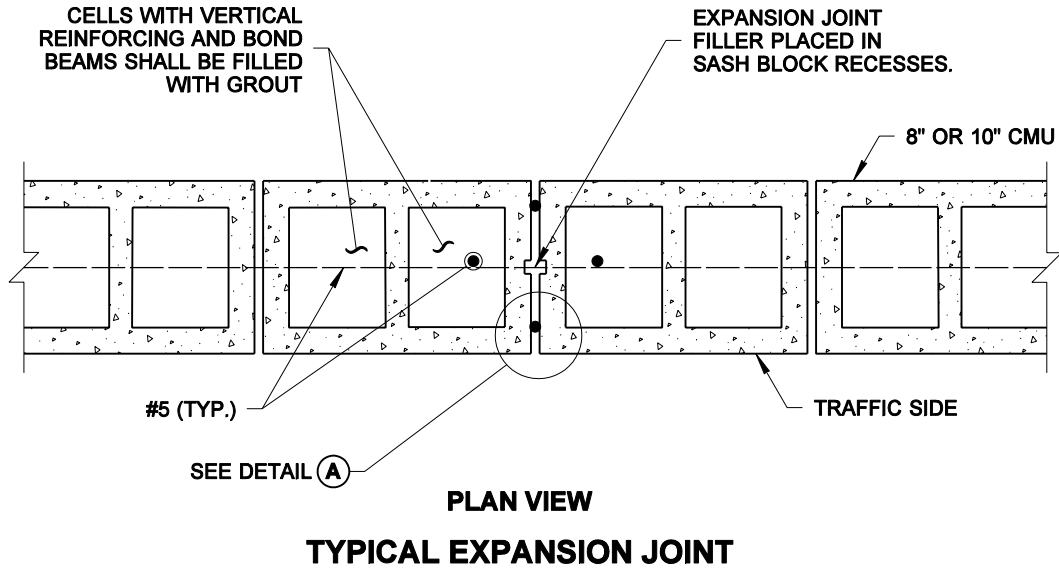
STATE DESIGN ENGINEER

DATE



Washington State Department of Transportation

DRAWN BY: ADAM COCHRAN



**MASONRY WALL ON  
OFFSET SPREAD FOOTING**



EXPIRES AUGUST 23, 2006

**NOISE BARRIER WALL  
TYPE 18**

**STANDARD PLAN D-2.64-00**

SHEET 2 OF 2 SHEETS

APPROVED FOR PUBLICATION

**Harold J. Peterfeso**

**11-10-05**

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DATE



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